

Abstract of the Disclosure

The biosynthesis of specific polyketide analogs is directed by genetic manipulation of a polyketide-producing microorganism by a method of isolating a polyketide biosynthetic gene-containing DNA sequence, identifying within the gene-containing DNA sequence, a sequence fragment encoding for polyketide synthase enzymatic activity, introducing one or more specified changes into said sequence fragment resulting in an altered DNA sequence, introducing said altered DNA sequence into a polyketide-producing microorganism to replace an original sequence, growing a culture of the altered microorganism under conditions suitable for the formation of the specific polyketide analog, and isolating said specific polyketide analog from the culture.